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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/634,847	08/06/2003	Masanori Onuma	Q76879	6506	
65565 SUCURIUE 24	7590 08/10/2007	•	EXAMINER		
SUGHRUE-265550 2100 PENNSYLVANIA AVE. NW			LE, THANH TAM T		
WASHINGTO	WASHINGTON, DC 20037-3213		PAPER NUMBER		
			2839		
•					
			MAIL DATE	DELIVERY MODE	
			08/10/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)	
	10/634,847	ONUMA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Thanh-Tam T. Le	2839	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR RE WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the mearned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI R 1.136(a). In no event, however, may a riod will apply and will expire SIX (6) MOI atute, cause the application to become Al	CATION. reply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on <u>0</u>	<u>1 June 2007</u> .		
2a) This action is FINAL . 2b) ⊠ 1	This action is non-final.		
3) Since this application is in condition for allo			
closed in accordance with the practice und	er <i>Ex parte Quayle</i> , 1935 C.[D. 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-4 and 6-8 is/are pending in the a	application.		
4a) Of the above claim(s) is/are with	drawn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-4 and 6-8</u> is/are rejected.		·	
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction an	id/or election requirement.		
Application Papers			
9)☐ The specification is objected to by the Exam			
10) The drawing(s) filed on is/are: a)			
Applicant may not request that any objection to			
Replacement drawing sheet(s) including the cor 11) The oath or declaration is objected to by the			
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum		§ 119(a)-(d) or (f).	
2. Certified copies of the priority docum		Application No	
3. Copies of the certified copies of the	priority documents have beer	received in this National Stage	
application from the International Bu			
* See the attached detailed Office action for a	list of the certified copies not	received.	·
Attachment(s)			
1) Notice of References Cited (PTO-892)	· —	Summary (PTO-413)	
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 7/25/07. 		(s)/Mail Date Informal Patent Application	

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1, 4 and 7-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ushijima et al. (6,334,798) in view of Applicant's submitted Prior Art (APA).

Ushijima et al., figures 1 and 3 show a method of connecting a terminal fitting and an elastic wire, comprising the steps of:

providing a terminal fitting (2);

providing an electric wire (W);

providing a conductive connecting (9 or 11) member formed with an insertion hole, the connecting member which includes an outer peripheral portion having a continuous cylindrical shape;

inserting the electric wire into the insertion hole of the connecting member; compressing the outer peripheral portion of the connecting member radially inwardly so as to caulk an inserted portion of the electric wire uniformly over a whole periphery thereof (column 5, lines 48-55); and thereafter

welding the connecting member and the terminal fitting (column 5, lines 55-62).

Ushijima et al. disclose the claimed invention as described above except for welding the connecting member and the terminal fitting by applying ultrasonic wave.

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APA, figure 7 shows welding the connecting member and the terminal fitting by applying ultrasonic wave (57). It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide Ushijima et al. to have the ultrasonic wave, as taught by APA for better welding.

Regarding claim 4, Ushijima et al., figures 1 and 3 show the terminal fitting is provided with a clamping portion (4) to press-the conductive connecting member.

Regarding claim 7, Ushijima et al. disclose the inserting the electric wire into the insertion hole is performed after the providing the conductive connecting member formed with the insertion hole.

Regarding claim 8, Ushijima et al. disclose the compressing the outer peripheral portion of the connecting member radially inwardly is performed after the inserting the electric wire into the insertion hole.

3. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ushijima et al. and APA as applied to claim 1 above, and further in view of Hsieh (4,998,344).

Ushijima et al. disclose the claimed invention as described above except for the connecting member is compressed and shaped by rotary swaging.

Hsieh, figures 1-3 show rotary swaging a workpiece (1) that is generally a cylindrical tube to form a semi-product. It would have been obvious to one of ordinary skill in the art at the time the invention was made to provide Ushijima et al. to have the connecting member is compressed and shaped by rotary swaging, as taught by Hsieh, in order to have more security between the connecting member and the wire.

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4. Claims 3 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ushijima et al. and APA as applied to claim 1 above, and further in view of Swengel, Sr. et al. (3,656,092).

Ushijima et al. disclose the claimed invention as described above except for the connecting member includes a first hole portion and a second hole portion which is larger than the first hole in diameter.

Swengel, Sr. et al., figures 4 and 5 show a terminal device having a connecting member (24) having a first hole portion (at 24) and a second hole portion (at 26) which is larger than the first hole in diameter. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify Ushijima et al. to have the structure of the connecting member, as taught by Swengel, Sr. et al. for easier connecting.

Response to Arguments

5. Applicant's arguments with respect to claim 1 have been considered but are moot in view of the new ground(s) of rejection.

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Conclusion

- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh-Tam T. Le whose telephone number is 571-272-2094.
- 7. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 8. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Thanh-Tam T. Le Primary Examiner Art Unit 2839